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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/696,590	10/30/2003	Hiroki Hosoe	106145-00070	7126
7590 07/01/2005			EXAMINER	
ARENT FOX KINTNER PLOTKIN & KAHN, PLLC			LIEU, JULIE BICHNGOC	
Suite 400		•		
1050 Connecticut Avenue, NW			ART UNIT	PAPER NUMBER
Washington, DC 20036-5339			2636	

DATE MAILED: 07/01/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)			
	10/696,590	HOSOE ET AL.			
Office Action Summary	Examiner	Art Unit			
	Julie Lieu	2636			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period of Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be tim y within the statutory minimum of thirty (30) days vill apply and will expire SIX (6) MONTHS from , cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. O (35 U.S.C. § 133).			
Status					
Responsive to communication(s) filed on <u>30 O</u> This action is FINAL . 2b)⊠ This Since this application is in condition for allowar closed in accordance with the practice under E	action is non-final. nce except for formal matters, pro				
Disposition of Claims					
 4) Claim(s) 1-5 is/are pending in the application. 4a) Of the above claim(s) is/are withdraw 5) Claim(s) is/are allowed. 6) Claim(s) 1-5 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or 					
Application Papers					
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) acce Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Ex	epted or b) objected to by the Eddrawing(s) be held in abeyance. See ion is required if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119					
a) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the prior application from the International Bureau * See the attached detailed Office action for a list	s have been received. s have been received in Application rity documents have been receive u (PCT Rule 17.2(a)).	on No d in this National Stage			
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 2/12/04.	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal Pa 6) Other:				

Application/Control Number: 10/696,590 Page 2

Art Unit: 2636

DETAILED ACTION

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) and the Intellectual Property and High Technology Technical Amendments Act of 2002 do not apply when the reference is a U.S. patent resulting directly or indirectly from an international application filed before November 29, 2000. Therefore, the prior art date of the reference is determined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

2. Claims 1-3 and 5 are rejected under 35 U.S.C. 102(e) as being anticipated by Allen et al. (US Patent No. 6,506,605).

Claim 1:

Allen et al. (Allen) discloses a detector for a vehicle equipped with a heat exchanger 16, in which a catalyst coating 50 provided in the heat exchanger decomposes a chemical substance in air passing through the heat exchanger, the detector comprising:

- a. a sensor 62 that detects a remaining amount of the catalyst coating, and
- b. a control unit (fig. 12) that generates an alarm based upon detection of the sensor,

Art Unit: 2636

wherein a position of detection of the sensor is determined according to a temperature characteristic of the heat exchanger (col. 10, lines 28-41; col. 13, lines 7-20).

Claim 2:

In Allen, the position of detection of the sensor is determined according to a flow rate of the air passing through the heat exchanger in addition to the temperature characteristic of the heat exchanger. Col. 10, lines 28-41; col. 13, lines 7-20.

Claim 3:

The heat exchanger 16 in Allen is a radiator, and a temperature distribution of a front surface of the radiator is used as the temperature characteristic of the heat exchanger. Col. 24, last paragraph.

Claim 5:

The position of detection of the sensor in Allen is determined so that detection occurs when an amount of decomposition of the chemical substance by an action of the catalyst coating becomes less than a value declared in an application for certification of decomposing performance. Col. 10, lines 28-41; col. 13, lines 7-20.

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

4. Claim 4 is rejected under 35 U.S.C. 103(a) as being unpatentable over by Allen et al. (US Patent No. 6,506,605).

Claim 4:

The heat exchanger16 in Allen is a radiator. Allen fails to discuss the time integral of temperature distributions of a front surface of the radiator is used as the temperature characteristic of the heat exchanger. However, it would have been obvious to one skilled in the art to derive the temperature from any method as desired so long as the method is proper and would provide accurate outcome.

Conclusion

5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Application/Control Number: 10/696,590

Art Unit: 2636

Okayama et al., US 2001/0019707.

Alleving et al., US 2001/0039928.

McClean et al., US 2003/0066623.

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Julie Lieu whose telephone number is 571-272-2978. The examiner can normally be reached on MaxiFlex.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jeffrey Hofsass can be reached on 571-272-2981. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Julie Lieu Primary Examiner Art Unit 2636 Page 5

Jun 23, 05